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EG&G ROCKY FLATS, INC.

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JUL 17 1990

90-RF-3976

Robert M Nelson, Jr
Manager
DOE, RFO

Attn L Schlag

PROJECT COSTS FOR THE CLOSURE OF THE SOLAR EVAPORATOR PONDS

This letter is in response to a request (0787-RF-90) from D P Simonson to J M Kersh dated June 18, 1990, for information concerning the cost associated with the closure of the solar evaporator ponds. The information requested includes original cost estimates, actual costs for fiscal years 1985 - 1989, estimated costs for fiscal year 1990, projected costs for future years, and planned activities in FY91 for the clean-out of the solar ponds, Pondcrete solidification and shipping to NTS. An interim response was issued to your office in late June, 1990 (90-RF-3690).

Original cost estimates for the solar ponds remediation are difficult to determine. Few of the people that were originally involved are still at RFP, and files dating back to 1985 are incomplete. A search through the existing files resulted in the letter shown in Attachment A, dated August 7, 1985. This letter states that the Total Estimated Cost (TEC) for solar evaporator pond sludge removal at the time was estimated to be \$1.64 million. Unfortunately, the letter is brief and does not detail what was to be accomplished for this funding.

Table 1 shows estimated costs for Pondcrete operations during fiscal years 1985 - 1990. The costs for FY85 - FY88 are very approximate because the plant accounting system was not set up to track Pondcrete costs separately during this time-frame. The costs shown are based on estimated labor, actual burdened labor rates for those years, actual waste generation rates, and estimated packaging costs. The FY89 costs are actuals from the plant accounting system. The costs for FY90 represent actuals through April and an estimate of costs that will be incurred through the remainder of FY90. FY91 costs are not included because of uncertainties in required equipment, strategy, and timing for activities related to the clean-out of the solar ponds. These issues are being addressed and a FY91 cost estimate will be developed as soon as possible.

DIST	
LHOFF F H	
JEEN, J H	
ETZKE J C	
JRLINGAME A H	
OUCHER D W	
VIS J G	
RRERA D W	
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ANCIS, G E	
ODWIN, R	
ALY, T J	
RSJ, J M	X
BBY, W A	
ESTIC, J B	
KINLEY, K B	
ELLEN, J B	
ORGAN R V	X
SNELL R F	
OTTER, G L	X
HOADES, J I	X
SNER, V L	
ANFORD, T H	
HANNON W M	
ANLEUVEN, D B	
ARNER B P	
SUNG, E R	
E. Everett	X
ETCHER, D H	X
ARNIVAL, G J	
ARMAN, L K	
EBERT J L	
OFFMAN, R B	
LAMMAN R L	
REIG, D M	
UDENBERG G E	
AIMON, E R	
EWBY, R L	
URNER, H I	
ELASQUEZ, R N	
A. J. Kallas	X
L. D. Williams	X
J. H. Nielsen	X
A. R. McCall	X
J. L. Ghe	X
ORRES CONTROL	X
ONTRACT ADMIN	X
S. Moya	X
D. Kelly	X
D. Brown	X

CLASSIFICATION

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SECRET

AUTHORIZED CLASSIFIER
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A. J. Kallas
DATE 7/13/90

IN REPLY TO LTR NO

0787 RF 90

TR APPROVALS

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1K.
RF-46468 (Rev 4/90)

ADMIN RECORD

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R M Nelson, Jr
RF-90-3976

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Table 2 shows the cost for the RCRA closure shown in the most recent iteration of the Interagency Agreement (IAG) through 2009. The IAG has not been signed yet and these costs may change in future revisions to the agreement.

If you have any questions please call Angelo Kallas at extension 7741



J M Hersh
Associate General Manager
Environmental Restoration and Waste Management

AJK lek

Ong and 1 cc - R M Nelson, Jr

Attachment
As Stated

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TABLE 1: PONDCRETE COSTS
(\$ thousand)

<u>ITEM</u>	<u>FY85</u>	<u>FY86</u>	<u>FY87</u>	<u>FY88</u>	<u>FY89 (1)</u>	<u>FY90</u>	<u>FY91</u>
Equipment	547 (2)	653 (2)	(3)	(3)	8,967	ND	ND
Packaging Materials	13	41	410	215	1,431	ND	ND
Labor	245	1,645	1,956	2,916	14,152	ND	ND
Disposal	25	137	0	0	HQ	HQ	HQ
Other	-	-	-	-	1,994	ND	ND
TOTAL	830	2,476	2,356	3,131	4,749	26,544	ND

Notes

- (1) = Only total costs are shown for FY89.
(2) = May not be complete. Information gathered from files.
(3) = Large capital equipment items were not required for this time-frame.
ND = Not Determined
HQ = Funding provided by DOE Headquarters

TABLE 2: RCRA CLOSURE COSTS (cont.)
(\$ thousands)

<u>Activity</u>	<u>FY2001</u>	<u>FY2002</u>	<u>FY2003</u>	<u>FY2004</u>	<u>FY2005</u>	<u>FY2006</u>	<u>FY2007</u>	<u>FY2008</u>	<u>FY2009</u>
IM RFI Plan									
IM RFI Field Work									
IM RFI Lab Work									
IM RFI Report									
IM IRA Treatability									
IM EA									
FA RFI Plan									
IM Phase I Decision Docs									
FA RFI Field Work									
FA RFI Lab Work									
IM Design									
FA RFI Report									
Feasibility/Treatability									
IM Construction									
FA EA									
FA Plan									
IM Perf. Monitoring	391	393	234						
FA Decision									
FA Engineering	63	59							
FA Construction	7,079								
FA Perf. Monitoring	67	400	393	395	395	391	391	401	365
TOTAL	7,600	852	627	395	395	391	391	401	365

Legend

IM = Interim Measure
FA = Final Action
RFI = Remedial Field Investigation
EA = Environmental Assessment

TABLE 2: RCRA CLOSURE COSTS
(\$ thousands)

<u>Activity</u>	<u>FY92</u>	<u>FY93</u>	<u>FY94</u>	<u>FY95</u>	<u>FY96</u>	<u>FY97</u>	<u>FY98</u>	<u>FY99</u>	<u>FY2000</u>
IM RFI Plan	166								
IM RFI Field Work	241	64							
IM RFI Lab Work		445							
IM RFI Report		421	141						
IM IRA Treatability		171	384						
IM EA			135	90					
FA RFI Plan			230	131					
IM Phase I Decision Docs			223	285					
FA RFI Field Work				490	24				
FA RFI Lab Work				103	132				
IM Design				245	387		121		
FA RFI Report					307	122			
Feasibility/Treatability					326	593			
IM Construction					57	3,388	1,882		
FA EA						210	15		
FA Plan						89	256		
IM Perf. Monitoring							204	393	393
FA Decision							139	69	
FA Engineering							251	378	
FA Construction								66	8,084
FA Perf. Monitoring									
TOTAL	407	1,101	1,113	1,344	1,233	4,402	2,868	906	8,477

Legend

IM = Interim Measure
FA = Final Action
RFI = Remedial Field Investigation
EA = Environmental Assessment